Elcometer blast machines are available in a range of easy-to-order kits to get you up and running as quickly and easily as possible.

Blast Kit 1

- Elcometer Abrasive Blast Machine
- RCV4000+ Remote Control Valve with Silencer, Exhaust & Safety Petcock
- 65.6ft[1] (20m) Pneumatic Control Hose with Deadman's Handle (DMHII)
- Air Manifold
- Choke Valve and Pusher Line
- Abrasive Metering Valve & Metal Pot Coupling
- Hard Wearing Mixer T[2]
- Pressure Test Certificate
- Moisture Separator

Blast Kit 2

All of Blast Kit 1 plus:

- 65.6ft[1] (20m) Blast Hose Assembly complete with Nylon Hose Coupling and Nylon Nozzle Holder

Personal Protection Kits

Elcometer offers a full range of personal protection & operator safety equipment which includes blast helmets, blast suits, capes and gloves, breathe air filters and breathe air hose.

[1] 32.8ft (10m) for Elcometer 1020 variants

[2] When fitted with a GV & AGV Media Valve

ELCOMETER ENGINEERED

Every aspect of an Elcometer Blast Machine uses high quality components, manufactured to an industry leading specification and designed and engineered by Elcometer experts.

Heavy Duty Construction

¼" (6mm) steel wall thickness, double weld seams & coated with a tough 2 pack epoxy multi-coat paint for corrosion protection.

High Flow Pipework & Valves

Large bore 1½" (38mm) pipework throughout ensures efficient airflow and minimal pressure loss.

Concave Dishes

Our high flow concave dish comes complete with a deflector plate for fast filling & operator safety.

Fast Flow Cones

45/90° cone to maximise abrasive flow rate.

Remote Control Valves

Used with a deadman's handle, the 1½" (38mm) remote control valve minimises air flow loss and shuts the blast system down quickly and safely.

Precision Metering Valves

Range of precision metering valves offer accurate control of your blast media, even whilst blasting.

Exhaust Manifolds

Hard working exhaust manifolds allow air to exhaust through the silencer quickly & safely, with minimum wear.

Moisture Separators

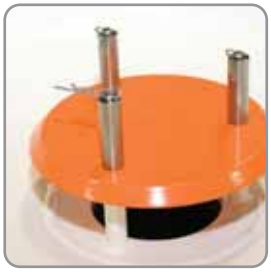
High performance moisture separator prevents water and oil from entering the blast pot.

Hard-wearing Mixer T's

Machined out of a single block of high grade machine steel, the hard-wearing Elcometer Mixer T is designed to last.

Serviceable Exhaust T's

When a blast machine exhausts, it can quickly wear out elbow joints, that is why Elcometer Exhaust T's are fitted with sacrificial wear plugs to minimise wear and maximise lifetime.



Adjustable Deflector Plates

The adjustable height deflector plate is designed to prevent abrasive escaping the blast machine when the pop up valve is engaged - keeping you safe.

Large Inspection Access

Large, easy to remove access doors to make maintenance easier and faster.

Reinforced Pop Up Valves

The heavy duty internal pop up valve is long lasting and quickly responds to pressurisation.

Narrow & Protected

Designed to fit through most standard doorways, valves and pipework are protected, even when laid down during transportation.

Flexible Pusher Lines

Flexible pusher line ensures air flow without pressure loss caused by elbows.

Air Manifold

The Elcometer Air Manifold allows multiple outlets for ancillary equipment and a pressure relief valve.

Waterproof Sieves & Lids

Optional sieves & lids are designed to fit over the top of the machine to prevent water ingress, keeping the media dry.

Balanced by Design

Easy to manoeuvre on site by one person, no matter their size.

SAFE & RELIABLE

Rugged, reliable and easy to use, Elcometer blast machines & valves are supplied with a full 12 month warranty and are engineered & tested to be incredibly efficient, durable and safe.

Excellence Is Our Standard

Designed and manufactured at our purpose built production facility in Manchester, England, Elcometer blast machines are CE approved, fully tested and certified to International Standards.

Built to Last

Manufactured out of heavy duty ¼" (6mm) steel with double weld seams and with a tough marine specification multi-coat anti-corrosion paint, Elcometer blast machines exceed International Standards to maximise their lifespan.

Putting You in Control

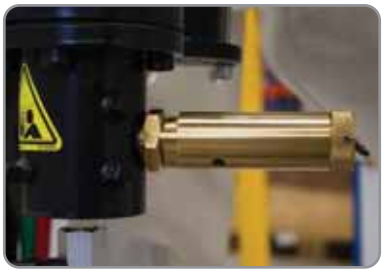
Elcometer's state-of-the-art RCV4000 & RCV4000+ Remote Control Valves allow you to safely control the blast machine at the nozzle. The high flow exhaust manifold allows air to quickly depressurise the blast machine.

Emergency Shut Down

Every Elcometer blast machine is fitted with a large and easy to reach safety petcock as standard. In an emergency it will isolate the deadman's handle circuit and depressurise the blast machine quickly and safely.

Peace of Mind

Pressure relief valves must be incorporated into the system to meet global safety standards. Elcometer offer certified pressure relief valves that can be easily fitted to RCV4000+ Remote Control Valves, automatically discharging the compressed air in the blast machine upon reaching the release pressure.



Productivity is a function of pressure and air flow.

"For every psi at the nozzle above 100psi (7bar) you get a 1.5% increase in productivity."

ENHANCE YOUR PERFORMANCE

Optimising the volume, speed and pressure of air to the nozzle results in greater blasting efficiency. Higher pressure and speed of air at the nozzle will also allow use of a larger nozzle size, resulting in faster blast area coverage, allowing you to cover more in less time.

Operating at more efficient blast pressures will also result in less abrasive usage thus saving money and clean up time!

Minimise Your Pressure Loss

The design of your blast machine together with your blast hose diameter, length, age, wear and quality can effect the pressure at the nozzle.

This is why we manufacture blast machines which have a maximum working pressure of either 174 or 217psi (12 or 15bar) and have been engineered for minimal pressure loss - so that you will always have the nozzle pressure you need to maximise your productivity.

Maximise Your Cubic Air Flow Per Minute

With an internal pipe diameter of 1½" (38mm) across our blast machines we have optimised the volumetric flow rate of air through the system every minute so that you can select a larger nozzle diameter, allowing you to blast more in less time.

Blast for Longer

Elcometer blast machines have a maximum working pressure of 174 or 217psi (12 or 15bar) allowing you to maintain the nozzle pressure over significantly longer lengths of hose, even as it wears.

Reduce Your Media Costs

Elcometer blast machines are designed to deliver the optimum pressure and flow rate at the nozzle, allowing you to use less abrasive to blast the same area to the same profile, saving you money.

Our abrasive media valves come with fingertip adjustment so that you can precisely control the media flow, even whilst blasting.

Reduce Your Maintenance

Elcometer's blast machines are engineered to be extremely durable so that parts last longer. Forcing abrasive through a high pressure system will, however, always create wear and tear so we have designed our machines to be easy and fast to maintain so that you can maximise your blast time.

Be In Control

Designed for precision control and minimal air flow loss, the Elcometer RCV4000 & RCV4000+ Remote Control Valves allow you to safely control a blast machine at the nozzle, fast.

"Greater pressure at the nozzle lets you work faster as every 1psi (0.07bar) above 100psi (7bar) equals 1.5% productivity increase."

MAXIMISE UP TIME

When you are not blasting you are not earning, that's why Elcometer blast machines are engineered to work harder, last longer and be faster to maintain.

Quick and Easy

Whilst Elcometer pop up valves come with reinforced metal guards so that they last longer, when they need to be replaced you can do so quickly and easily thanks to the large access doorway which is wide enough for both of your arms. As each door comes with an ElcoFit™ wraparound sealing gasket, you don't even have to worry about gasket alignment.

Maintenance in Minutes

Maintenance is always required to prolong the service life of your blast machine. To minimise your downtime, the remote control valve, exhaust, silencer and moisture separator can be quickly swapped out in one assembly by undoing just two union joints. So whilst the assembly is being serviced, you can carry on blasting.

Tough T's

Elcometer Mixer Ts are made from ultra-hard wearing machined steel so that they last longer. When they start to wear out, just rotate them by 180° to double their service life.

Each Elcometer Exhaust T features a replaceable sacrificial plug designed to extend the life of the assembly.

Extend Your Lifetime

Unlike other media valves, Elcometer GV and AGV abrasive media valves are fitted with a replaceable elcoTOUGH™ rubber valve liner which protects and prolongs the lifetime of the valve itself.

Integrated scales on the valves clearly indicate the valve setting and tells you when you need to change the liner, so you don't have to guess, or open up the valve to check.

Each elcoTOUGH™ liner can last more than 3 times longer than other rubber liners and can be rapidly replaced without the need to remove the valve from the machine.

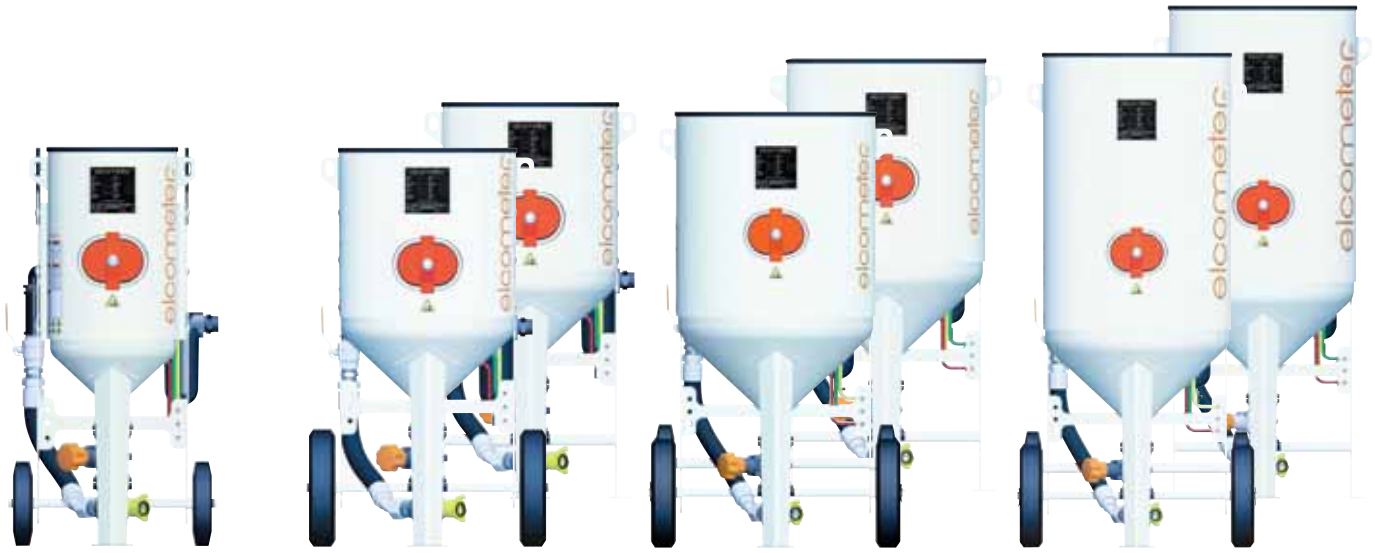
New elcoTOUGH™ Valve Liner

elcoTOUGH™ Valve Liner after 1665 hours using copper slag at 116psi (8bar)

Whether you are blasting at a dockyard or in a blast room, **Elcometer** offers a range of blast machines, from 0.7 up to 10.06cu ft (20-285 litres), available with 174psi (12bar) working pressure to maximise productivity.

	Options	Elcometer 1020	Elcometer 1440
Capacity	Volume	0.70cu ft (20 litres)	1.41cu ft (40 litres)
	Aluminium Grit	102lbs (47kg)	206lbs (94kg)
	Steel Shot/Garnet	193lbs (88kg)	388lbs (176kg)
Model Options	Portable	■	■
	Static		
Valve Options	FV/MFV: Flat Valve/ Mini Flat Valve GV/MGV: General Valve/ Mini General Valve AGV: Automatic General Valve	MFV MGV	FV GV AGV
Dimensions	Pot Diameter	10” (254mm)	14” (356mm)
	Height	35” (880mm)	40” (1015mm)
	Width	22” (565mm)	24” (615mm)
	Depth	22” (562mm)	28” (714mm)
	Weight	154lbs (70kg)	209lbs (95kg)

Elcometer standard blast machines are CE approved and fully tested and certified to International Standards with a maximum working pressure of 174psi (12bar).



Elcometer 1460	Elcometer 20100	Elcometer 24200	Elcometer 24285
2.11cu ft (60 litres)	3.53cu ft (100 litres)	7.06cu ft (200 litres)	10.06cu ft (285 litres)
308lbs (140kg)	515lbs (234kg)	1031lbs (468kg)	1469lbs (667kg)
580lbs (264kg)	971lbs (440kg)	1942lbs (880kg)	2767lbs (1254kg)
■	■	■	■
	■	■	■
FV GV AGV	FV GV AGV	FV GV AGV	FV GV AGV
14” (356mm)	20” (508mm)	24” (610mm)	24” (610mm)
46” (1165mm)	46” (1175mm)	54” (1380mm)	66” (1665mm)
24” (615mm)	28” (704mm)	31” (794mm)	31” (794mm)
28” (714mm)	34” (865mm)	44” (1109mm)	44” (1109mm)
236lbs (107kg)	337lbs (153kg)	452lbs (205kg)	509lbs (231kg)

Elcometer 24285

10.06cu ft

285 litre

The **Elcometer 24285** Abrasive Blast Machine is ideal for continuous high production blasting, on site or in a blast room.

- Ideal for site work or blast room installation
- One or two operators from a single blast machine
- Choice of static or twin wheeled portable machine that is safe and easy to manoeuvre
- Available with a range of media valves to suit your application
- Heavy duty ¼" (6mm) construction
- Easy & quick to service

Kit Selection

Elcometer Blast Machine Kits are available with:

Flat Valve **(F)**

General Media Valve **(G)**

Automatic General Valve **(A)**

Part Numbers

	Portable Kit 1			Portable Kit 2			Static Kit 1			Static Kit 2		
	M24285-FV1-N	M24285-GV1-N	M24285-AGV1-N	M24285-FV2-N	M24285-GV2-N	M24285-AGV2-N	M24285S-FV1-N	M24285S-GV1-N	M24285S-AGV1-N	M24285S-FV2-N	M24285S-GV2-N	M24285S-AGV2-N
24” (610mm) 10.06cu ft (285 litre) Abrasive Blast Machine	●	●	●	●	●	●	●	●	●	●	●	●
Pressure Test Certificate	●	●	●	●	●	●	●	●	●	●	●	●
RCV4000+ Remote Control Valve with Air Manifold, Exhaust & Silencer	●	●	●	●	●	●	●	●	●	●	●	●
65.6ft (20m) Pneumatic Control Hose & Deadman’s Handle (DMHII)	●	●	●	●	●	●	●	●	●	●	●	●
Choke Valve and Pusher Line	●	●	●	●	●	●	●	●	●	●	●	●
Abrasive Metering Valve with Mixer T[1] and Metal Pot Coupling	F	G	A	F	G	A	F	G	A	F	G	A
Moisture Separator	●	●	●	●	●	●	●	●	●	●	●	●
65.6ft (20m) 1¼” (32mm) ID Blast Hose with Nylon Hose Couplings & Nylon Nozzle Holder				●	●	●				●	●	●
Externally Mounted Sieve and Lid				●	●	●				●	●	●

Elcometer 24285 Abrasive Blast Machine Technical Specification

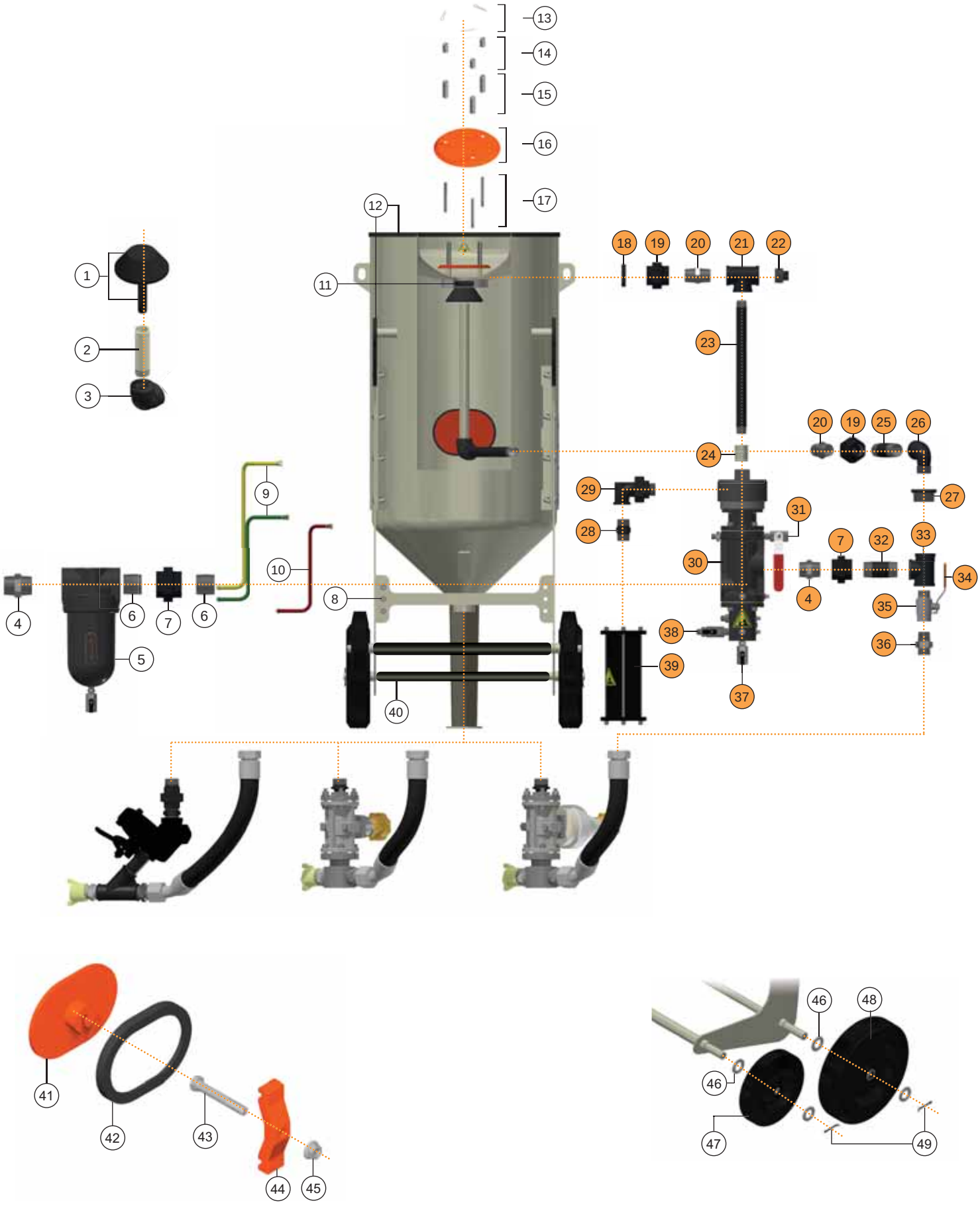
Capacity[2]		
Volume	10.06cu ft	285 litres
Aluminium Grit	1469lbs	667kg
Steel Shot/Garnet	2767lbs	1254kg
Pot Diameter	24"	610mm
Height	66"	1665mm
Width	31"	794mm
Depth	44"	1109mm
Weight	509lbs	231kg
Pipework Diameter	1½"	38mm
Maximum Working Pressure (WP)[3]	174psi	12bar
Operating Temperature Range	32 to 140°F	0 to 60°C

[1] Y Mixer for Mini Flat Valve versions.

[2] Aluminium & steel shot capacity figures based on typical media bulk density. Note that bulk density varies according to media size and grade.

[3] Do not operate this abrasive blast machine unless there is an appropriate safety pressure relief valve within the pressurised system as a whole.

Elcometer 24285 Portable Abrasive Blast Machine



Elcometer 24285 Portable Abrasive Blast Machine

Spare Parts

Item	Part Number	Description
1	MT28622	Pop Up Valve
2	MT28631-6N	1" (25mm) Pop Up Shaft for Elcometer 24285
3	MT29661N	1" (25mm) Female 90° Equal Elbow (Service Item Only)
4	MT31013-3N	1½" (38mm) Hex Nipple
5	MT28617N	Moisture Separator Assembly
6	MT30553-1N	1½" (38mm) Close Nipple
7	MT31018-5N	1½" (38mm) Union Brass Seat
8	MT29664N	¼" (6mm) Bulkhead Connector (x3)
9	MT29727N	Elcometer 24285 Twin Airline Hose Assembly (Yellow & Green)
10	MT29728N	Airline Assembly for Elcometer 24285 (Red)
11	MT28627-5	Pop Up Valve O-Ring (x5)
12	MT29601	Protective Edging Strip Kit 8.9ft (2.7m)
13	MT29667	Spring Cotter Pin Type E (x3)
14	MT29719	Short Deflector Plate Spacer - 1" (25mm) (x3)
15	MT29720	Long Deflector Plate Spacer - 2" (51mm) (x3)
16	MT29670	Deflector Plate
17	MT28629-3	Deflector Plate Shaft - 3.2" (82mm) (x3)
18	MT29672N	1" (25mm) Backnut
19	MT31018-3N	1" (25mm) Union Brass Seat
20	MT31013-2N	1" (25mm) Hex Nipple
21	MT30574-2N	1" (25mm) Equal T
22	MT29681N	1" (25mm) Solid Plug
23	MT29729N	1" (25mm) Pipe
24	MT31017N	1" (25mm) Machined Socket
25	MT30556-7N	1" (25mm) Pipe
26	MT31019-2N	1" (25mm) 90° Street Elbow
27	MT30577-3N	1½" to 1" (38mm to 25mm) Reducing Bush
28	MT31013-1N	¾" (19mm) Hex Nipple
29	MT28599N	¾" (19mm) Union Elbow Male
30	MT29465N	Elcometer RCV4000+ Remote Control Valve
31	MT29656N	Petcock Valve Assembly (Red Handle)
32	MT30556-3N	1½" (38mm) Pipe
33	MT29708N	1½" (38mm) Equal Pitcher T
34	MT30094N	1½" (38mm) Choke Valve Handle
35	MT29177N	1½" (38mm) Choke Valve Handle Assembly (includes MT30094N Choke Valve Handle)
36	MT29710N	1½" (38mm) NPTF Male x ⅞" JIC Male Adaptor
37	MT29658N	¼" (6mm) Ball Valve Assembly (Black Handle)
38	MT29660N	¼" (6mm) Airline Ball Valve Assembly (Black Handle)
39	MT28597N	Exhaust Silencer Assembly
40	MT29692-4	Protection Guard for Elcometer 24285
41	MT28616	Elcometer Inspection Hatch Door for Elcometer 24285
42	MT28613	ElcoFit™ Door Sealing Gasket
43	MT29695N	Elcometer Inspection Door Hatch Bolt - ⅝" x 4⅓" (M16 x 110mm)
44	MT28615	Inspection Hatch Door Yoke
45	MT29696N	⅝" (M16) Hexagon Flanged Nut
46	MT29697	Flat Washer (x8)
47	MT28636	Ø9.8" (250mm) Diameter Wheel (x1)
48	MT28637	Ø13.8" (350mm) Diameter Wheel (x1)
49	MT29698	Split Cotter Pin (x4)
-	MT29490-6N	Elcometer RCV4000+ & Pipework Assembly Service Kit (contains items in orange)
-	MT29180	Elcometer Safety Label Kit